

Chicago to Omaha Regional Passenger Rail Planning Study

April 30, 2012

Agenda

- Introduction & Study Overview
 - Amanda Martin, Iowa DOT, Office of Rail Transportation
- Draft Alternatives Analysis findings
 - Mark Hemphill, HDR Inc.
- Next Steps
 - Amanda Martin, Iowa DOT, Office of Rail Transportation

What is the study?

- The Iowa Department of Transportation, in cooperation with the Federal Railroad Administration (FRA) and Illinois Department of Transportation, is studying the feasibility of expanding existing passenger rail service and developing a new regional passenger rail service from Chicago, Ill., through Iowa to Omaha, Neb.
- This study will be a major step in assessing the viability of a regional intercity passenger rail system serving Iowa and the Midwest through this corridor.

Purpose of the study

- The purpose of this study is to:
 - Evaluate potential route alternatives.
 - Evaluate levels of service and ridership.
 - Analyze environmental impacts.
 - Determine a preferred Chicago to Omaha passenger rail route alternative for regional intercity passenger rail service.

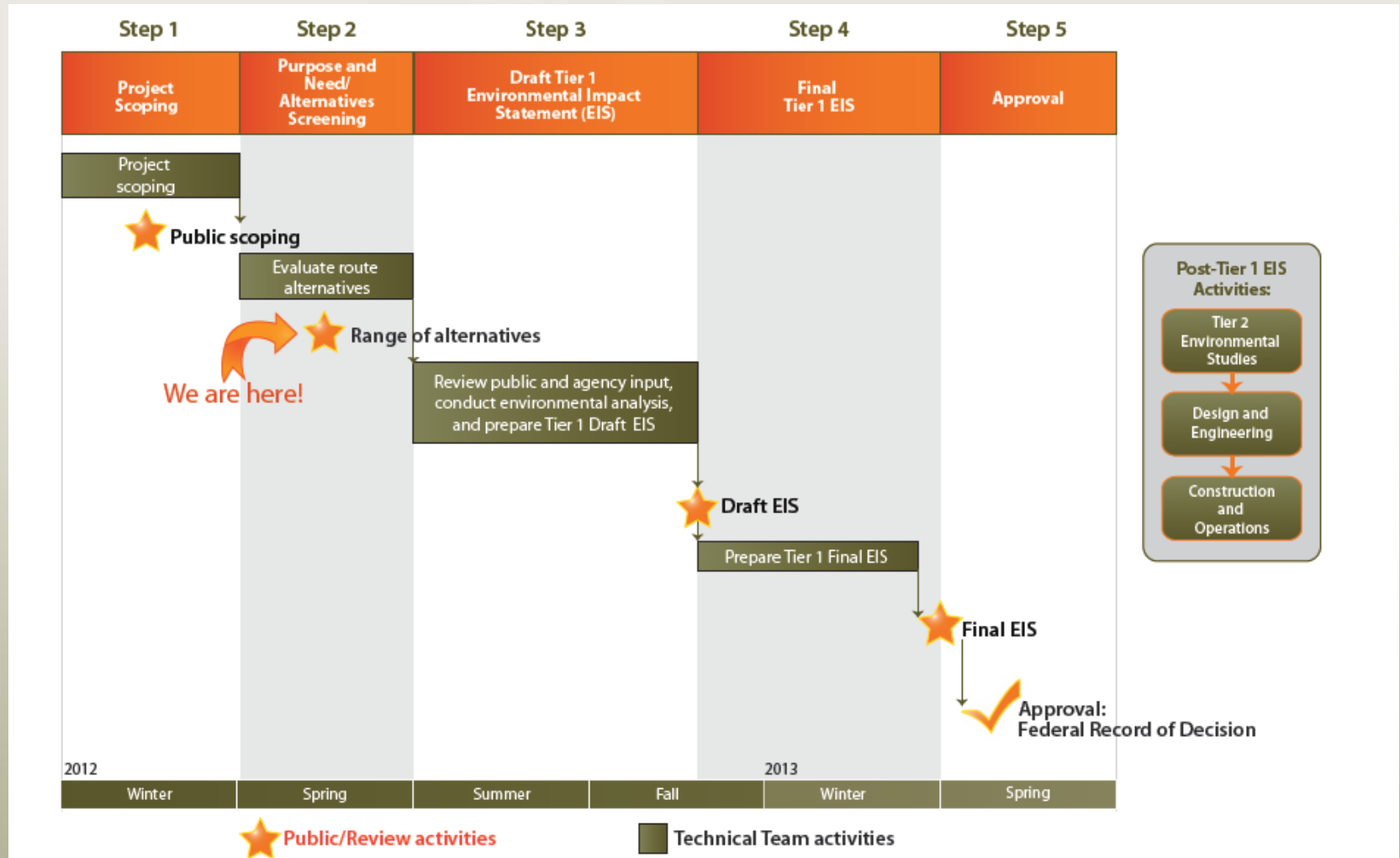
Study costs

- Overall cost of the planning study: \$2 million
- Costs are allocated between the State of Iowa and FRA.
- Implementation costs will be identified during the study.

What would regional passenger rail service provide?

- Reduced travel times compared to automobile.
- Scheduled and convenient passenger rail service.
- Reduced cost compared to air and automobile.
- Improved travel reliability, particularly in inclement weather versus other travel modes.
- Improved passenger ride quality and comfort.
- Reduced use of highways and airports.

Schedule



Why is this planning process necessary?

- This process is required by federal law if any federal funds are used to implement passenger rail between Chicago and Omaha.
- The railroad companies whose tracks might host the service require assurance that their freight shippers will not be harmed.
- The communities the passenger trains might pass through need to understand how the service might affect them.
- The state needs to understand the full lifetime cost of the service.

Public involvement to-date

Tool	Impact
Website Visits	5,351 unique visitors
Online Meeting Visits	3,799 unique visitors
Mailing List Requests	586
Comments	1,275
Facebook	442 shares, 441 liked/shared/commented
Twitter	117 tweets/ 40 retweet, 126,900 impressions

Route alternatives analysis

- Process is defined by the National Environmental Policy Act
- Goal of Process
 - Identify “reasonable and feasible” routes
 - Eliminate “unreasonable and infeasible” routes
- Routes deemed reasonable and feasible are evaluated in detail in Tier 1 Environmental Impact Statement

What is “reasonable and feasible?”

- The route must be able to deliver a passenger rail service that meets the Purpose and Need:
 - Competitive and attractive to travelers:
 - Convenient travel times
 - Sufficient frequency of service
 - Serves high population
 - High Reliability
 - High revenue (ticket sales)
 - Technically and economically feasible
 - Lowest reasonable capital, operating and maintenance costs
 - Environmentally feasible
 - Environmental impacts minimized

Initial route identification

- Six existing routes between Chicago and Omaha were analyzed:
 - Five are intact
 - One is partially abandoned
 - All previously hosted passenger trains at speeds of up to about 110 mph
- No “greenfield” routes were analyzed
 - Greenfield routes needed for speeds higher than 110 mph, but
 - Speeds higher than 110 mph are not required
 - Greenfield routes are very high cost

Chicago-Omaha route alternatives



Alternatives analysis - general approach

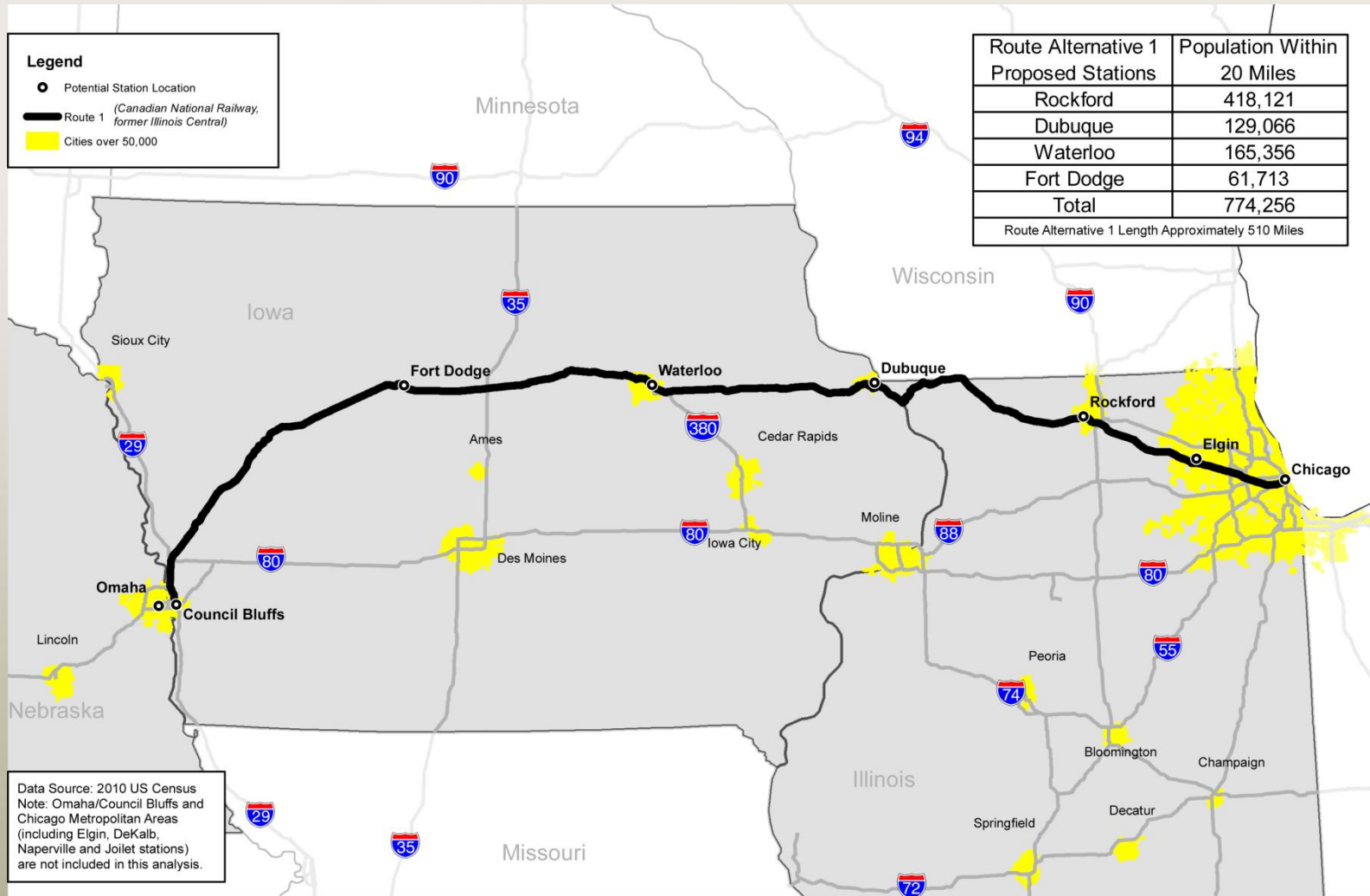
Category	Coarse-level Criteria	Fine-level Criteria	
Purpose and Need	<ul style="list-style-type: none"> • Population proximity • Competitive and attractive modes of travel 	<ul style="list-style-type: none"> • Ridership and revenue • Cost • Available alternative services • Travel times 	
Environmental Concerns	<ul style="list-style-type: none"> • Major challenges • Sensitive area impacts • Right-of-way impacts 	<ul style="list-style-type: none"> • Streams • Wetlands • Farmlands • Threatened and endangered species • Cultural resources 	<ul style="list-style-type: none"> • Potential Section 4(f)/6(f) protected properties • Environmental justice • Noise and vibration • Hazardous materials • Right-of-way Impacts
Technical Feasibility	<ul style="list-style-type: none"> • Major construction efforts • Freight train traffic conflicts 	<ul style="list-style-type: none"> • Freight train traffic conflicts 	
Technical/Economic Feasibility	<ul style="list-style-type: none"> • N/A 	<ul style="list-style-type: none"> • Alignment • Structures • Grade crossings 	
Economic Feasibility	<ul style="list-style-type: none"> • Cost of Implementation 	<ul style="list-style-type: none"> • High-level Project Costs 	

Route evaluation process

- Steps in Evaluation:
 - Travel time estimate
 - Ridership/revenue forecast
 - Train capacity (track, signal, bridges for existing and future freight + passenger)
 - Infrastructure needs assessment
 - Infrastructure cost estimate
 - Equipment and operating and maintenance cost estimate
 - Environmental impacts assessment
- Result – routes are summarized to screen for whether they are reasonable and feasible

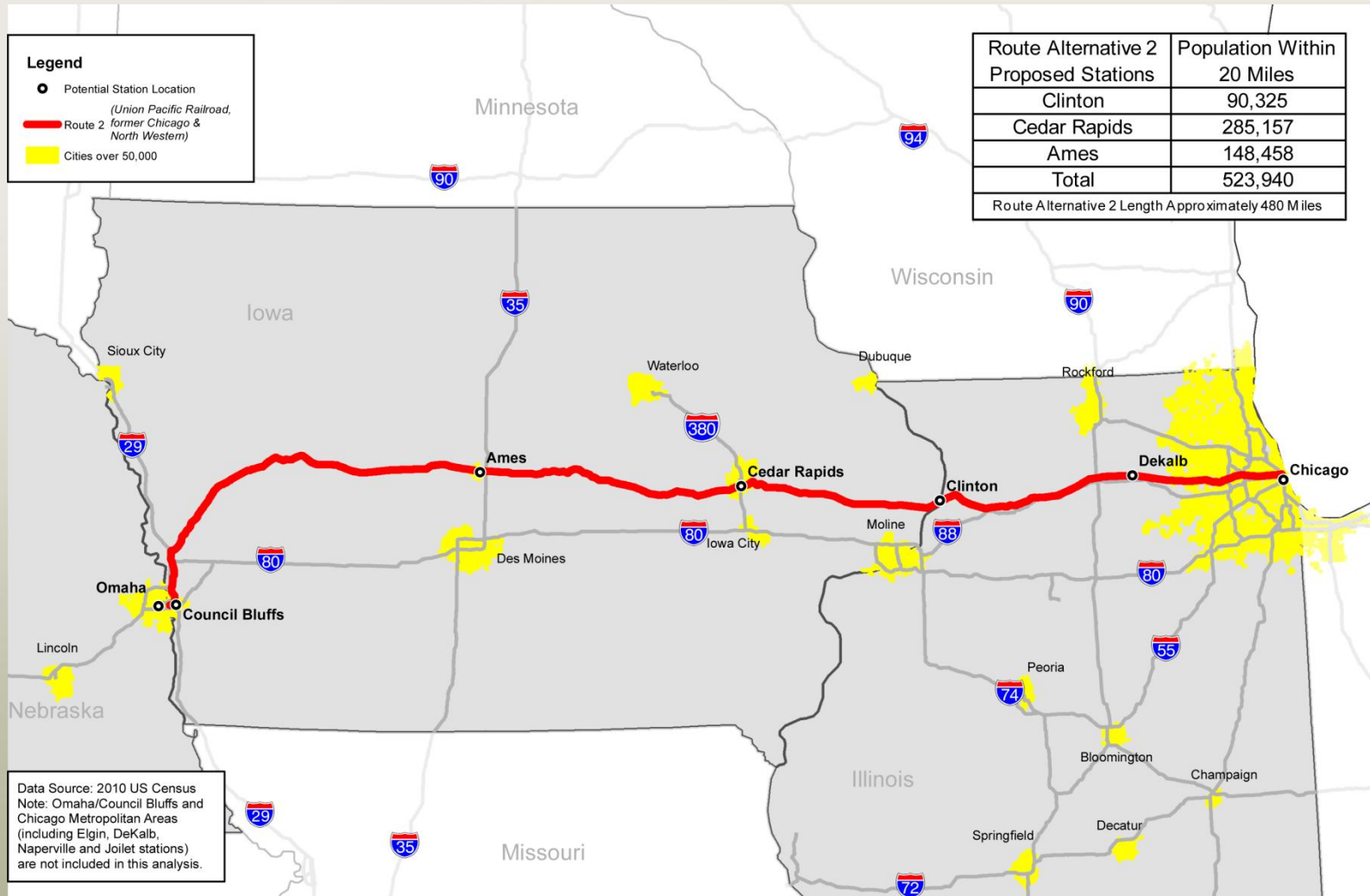
Route 1 – CN

Annual Ridership 505,000-715,000

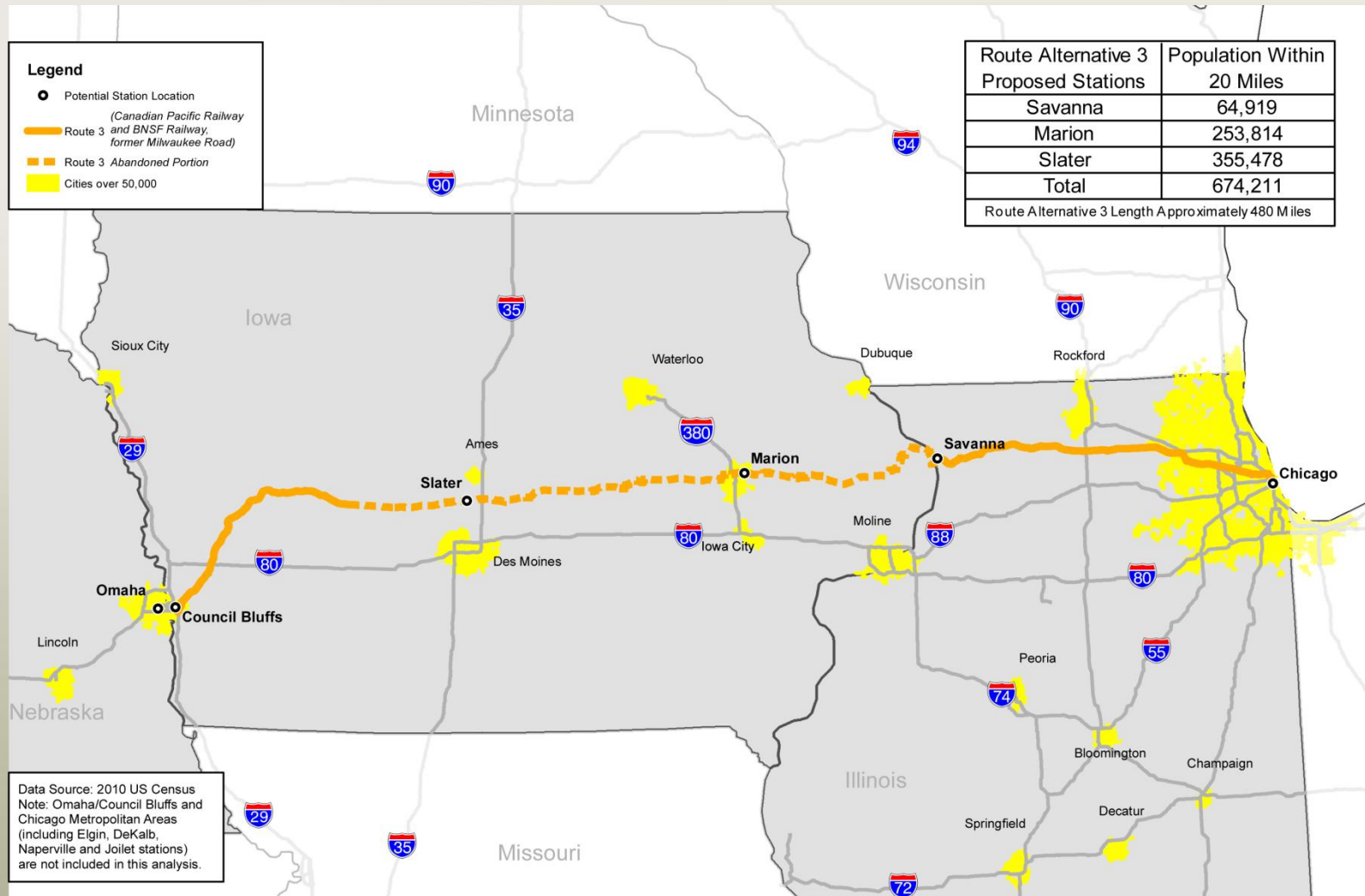


Route 2 – UP

Annual Ridership 375,000-550,000

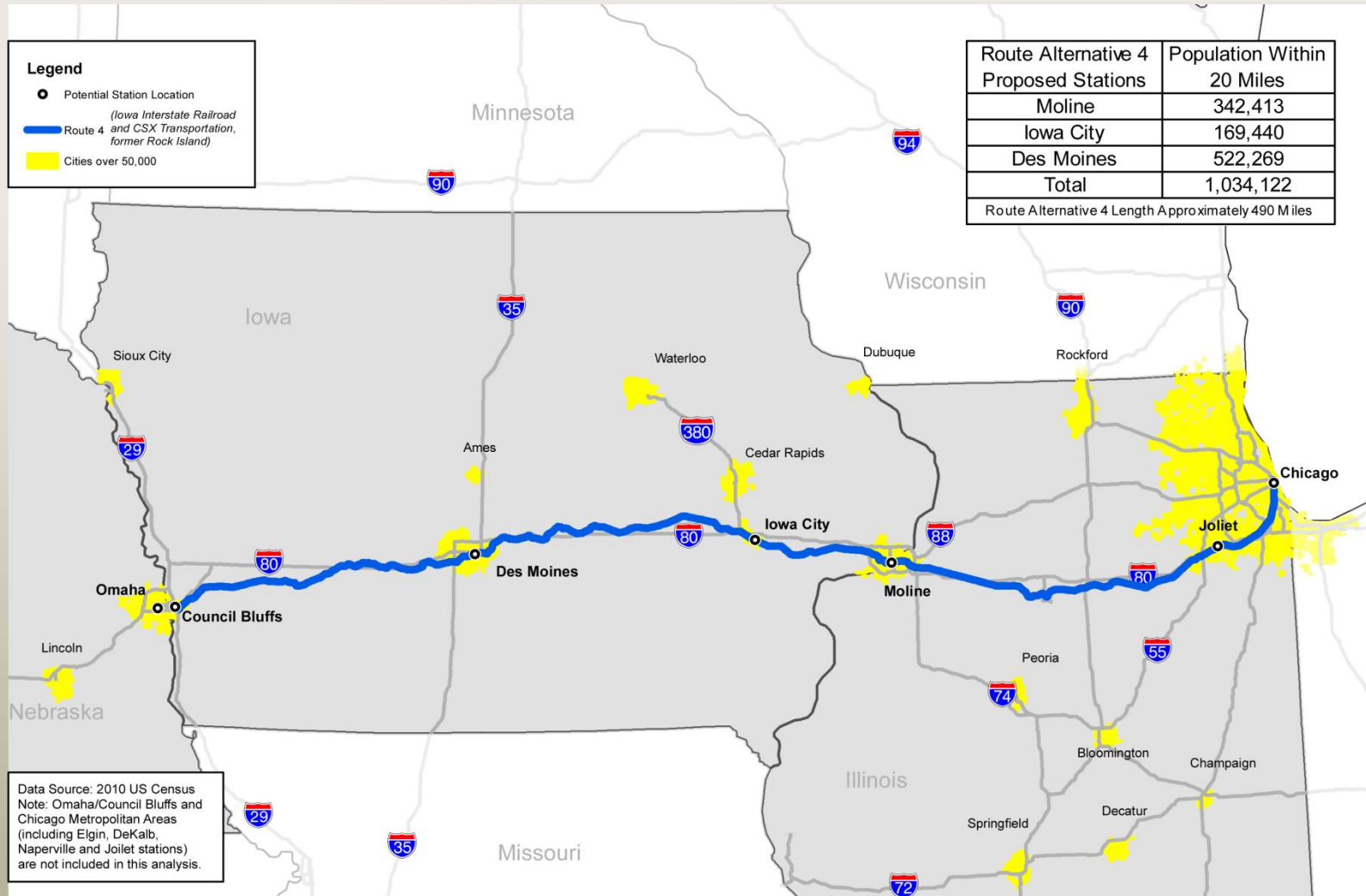


Route 3 – CP/BNSF (Route screened out)



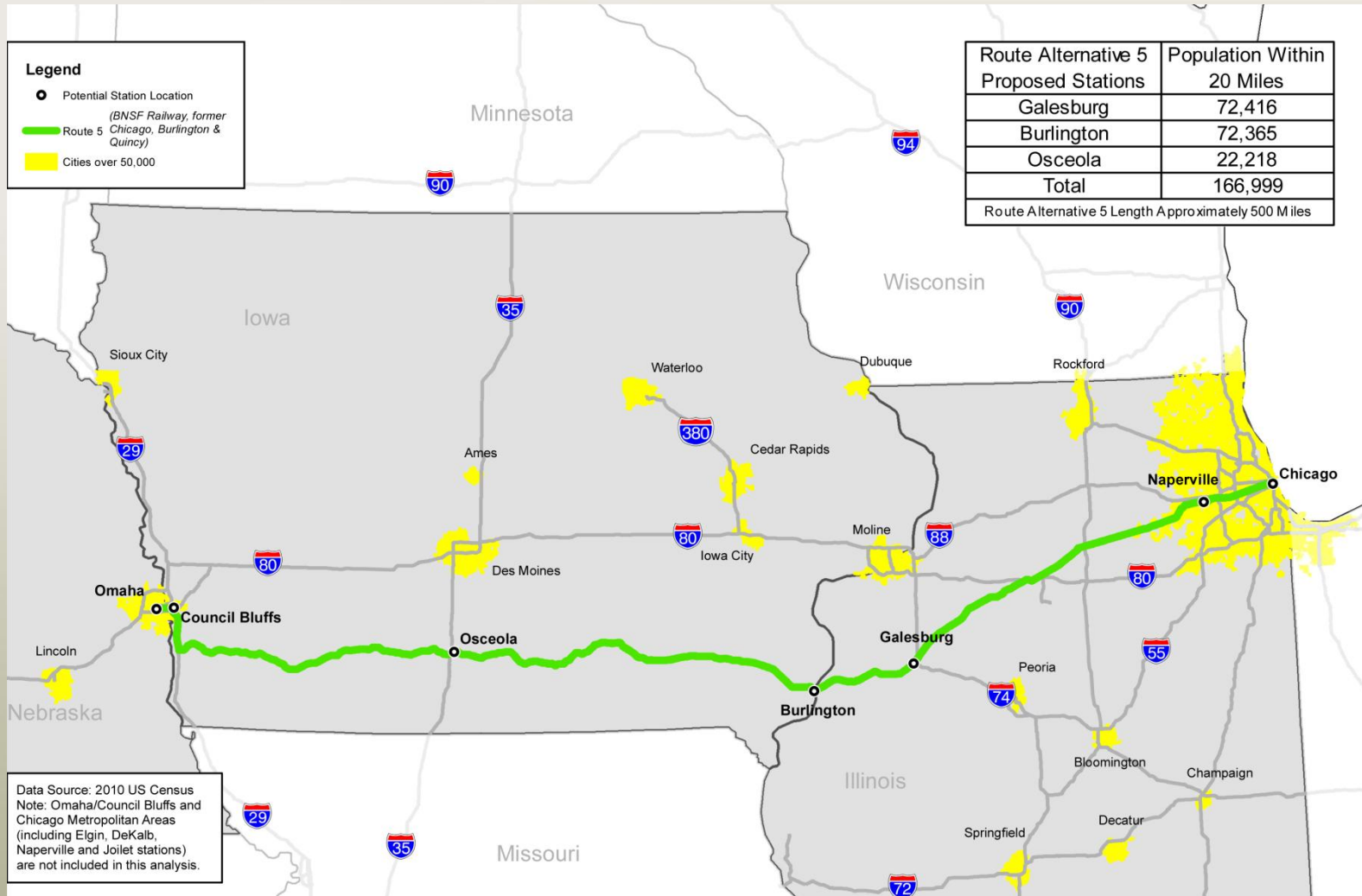
Route 4 – CSX/IAIS

Annual Ridership 640,000-885,000



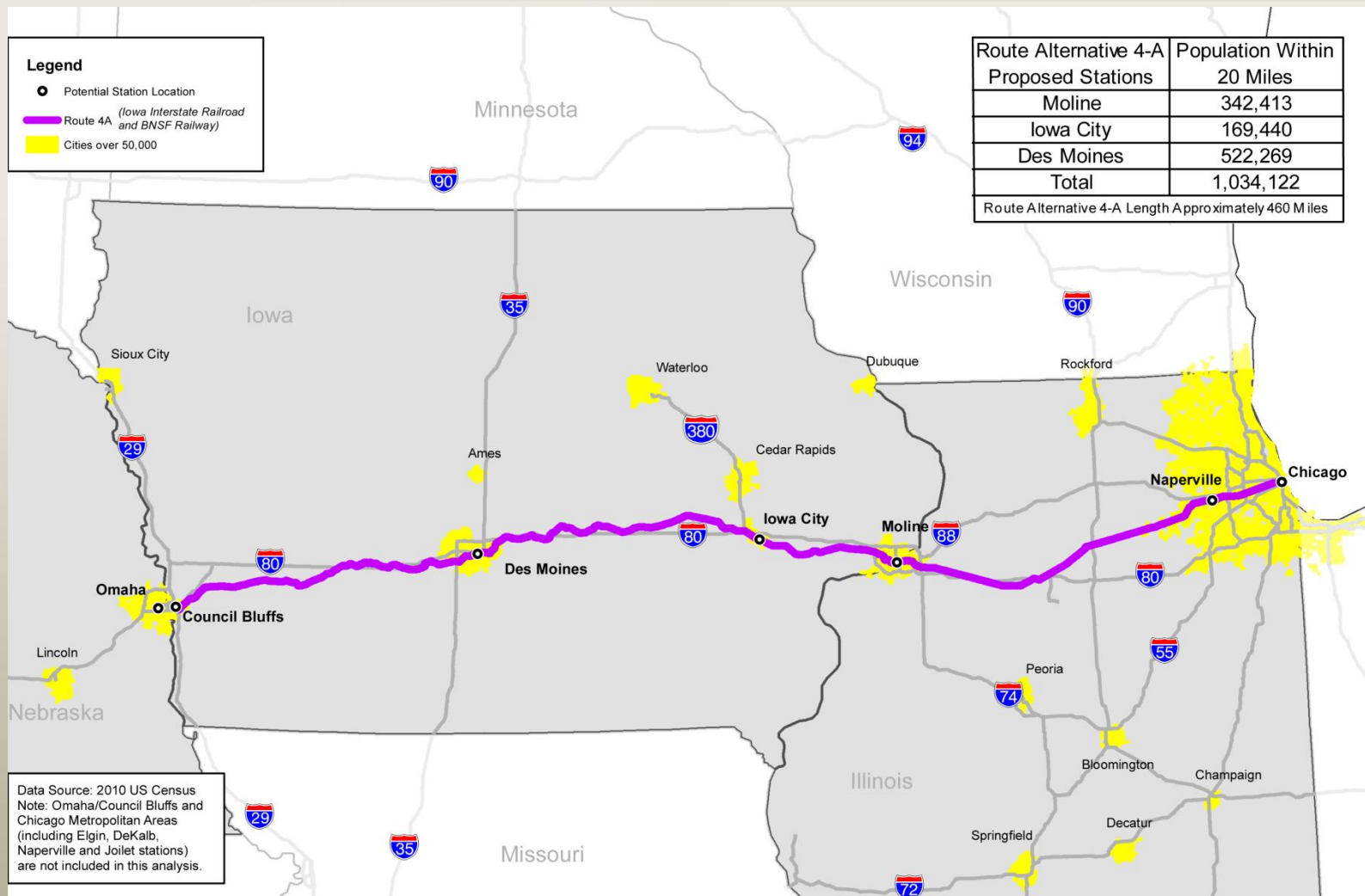
Route 5 – BNSF

Annual Ridership 255,000-370,000



Route 4-A – BNSF/IAIS

Annual Ridership 680,000-935,000



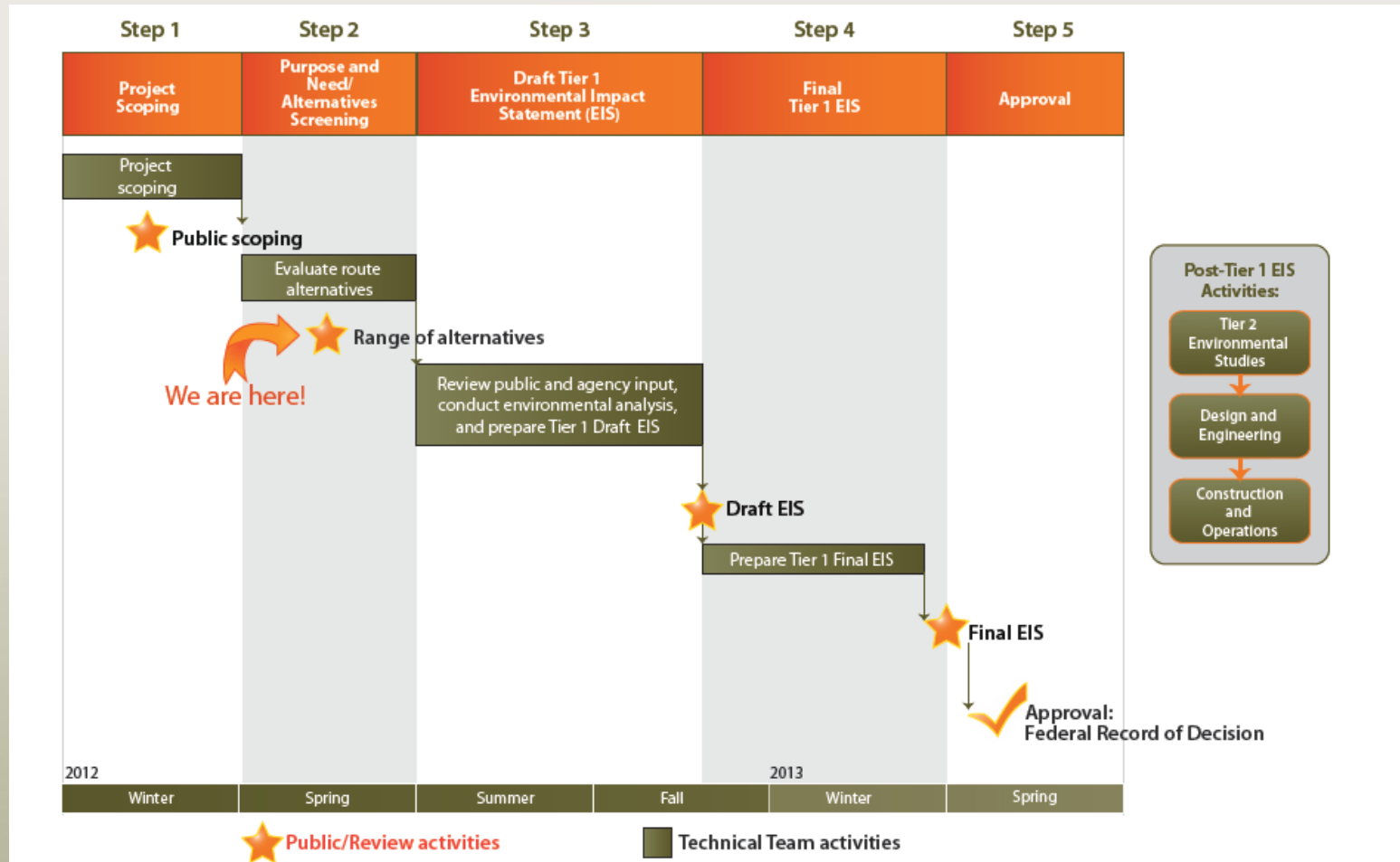
Draft findings

- Route Alternative 1 – CN – will not be carried forward to EIS
 - Insufficient ridership and revenue through ticket sales
 - Travel time not competitive with auto or bus
 - High implementation cost
- Route Alternative 2 – UP – will not be carried forward to EIS
 - Insufficient ridership and revenue through ticket sales
 - Very high implementation cost
- Route Alternative 3 – CP/BNSF – eliminated at rough-screening level
 - High right-of-way acquisition cost
 - High environmental impacts
- Route Alternative 4 – IAIS – will not be carried forward to EIS
 - Does not serve Chicago Union Station
 - Connection to CUS not feasible
- Route Alternative 5 – BNSF – will not be carried forward to EIS
 - Insufficient ridership and revenue through ticket sales
 - Very high implementation cost
- Route Alternative 4-A – IAIS/BNSF – will be carried forward to EIS
 - Highest ridership and revenue through ticket sales
 - Almost the fastest
 - Almost the least expensive
 - No-build alternative – will be carried forward to EIS to serve as a baseline and meet NEPA requirements of evaluating impacts of no action

Next steps for preferred route

- Assessment of existing conditions
 - Detailed evaluation of existing infrastructure and freight traffic
 - Station location analysis
 - Station connectivity analysis
- Conceptual engineering
 - Cost estimate
 - Determine environmental footprint
- Environmental evaluation
 - Tier 1 level analysis only
 - Chicago, Omaha, and final station locations will be addressed during Tier 2
- Service development planning
 - Initial operations planning
 - Initial stations planning

Study next steps



Public contact information

- Online meeting, website, and the community toolkit at **www.iowadot.gov/chicagotoomaha**
- In-person meetings
- Hotline at 1-800-488-7119
- E-mail at email@chicagotoomaha.com
- Send mail to:
Iowa Department of Transportation
Attn: Tamara Nicholson
800 Lincoln Way
Ames, Iowa 50010